University for Young People (UYP)
2019 Course Catalog
All classes are for the grade the student will enter in Fall 2019.

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UYP Primary Camps

UYP Session 1 (June 3–7): Grades 1–4

Creative Problem Solving: Rocket Into Space
In this weeklong camp, students will learn and use creative problem solving (CPS) skills to investigate a “mess” related to families and children living in a space station. Discoveries will be made by teams of students in areas such as training, life support, recreation, nutrition, communication, and transportation and how these might affect those in the space station. Students will share their innovative solutions in an open-house showcase on the last day of camp.

**Time:** 8:30 a.m.–2 p.m.

**Location:** Dean Highland Elementary

**Needed Supplies:** Daily sack lunch

UYP Session 2 (June 10–14): Grades 1–4

Digging Deeper: Discovering and Exploring Your Passion
In this weeklong camp, students will identify a topic of interest that they would like to explore more in depth. Teachers will guide them as they learn the steps to conduct an independent study to facilitate their research. Students will use a variety of strategies and technology to explore their passion area and develop a product of their choice to share in an open-house showcase on the last day of camp.

**Time:** 8:30 a.m.–2 p.m.

**Location:** Dean Highland Elementary

**Needed Supplies:** Daily sack lunch
Morning Session (9:45–11:15 a.m.)

Robotics
*Amber Sandifer*
Explore the possibilities behind robotics by learning to design, build, and program your very own machine. Each day, you will learn to use a new kind of sensor and create new code in order to make your robot stronger and smarter, all leading up to a final challenge. Test your knowledge and skill by creating the best robot fit for the job.

Food for Thought
*Rachael Reddy*
In this course, you will explore the important aspects of the foods that make up a balanced diet. You will learn the main components of nutrition, the roles they play in the human body, and how to prepare a plate that meets your dietary needs. Each class will be accompanied with a food item paired to the day’s lesson that you will have the opportunity to both make and enjoy. At the conclusion of this course, the class members will work together to plan a nutritionally balanced meal.

Lunch and Recreation (11:15 a.m.–1:15 p.m.)
Experience the life of a college student as you join other campers and your mentor for lunch in Penland Dining Hall. All-you-can-eat food options include, but are not limited to, hamburgers, sandwiches, pizza, salad, fruit, Mexican food, stir fry, gluten-free options, and dessert. After lunch, you will enjoy recreation such as soccer, volleyball, games, and movies that are organized by UYP mentors. Mentors will take you to your afternoon course after recreation time.

Afternoon Session (1:15–2:45 p.m.)

New Terrestrial Zoo: Spotted Lions, Long-Necked Tigers, and Small-Headed Bears, Oh My!
*Jeff Platt*
The arrival of 2019 has brought rapid, unusual changes in animal behavior. Scientists are not sure why this is happening, but one thing they do know is that the animal kingdom has been affected by the new year. Unusual creatures are everywhere as a result of what scientists believe to be crossbreeding. This phenomenon has piqued the interest of the general public. Your local community, Parks and Recreation, and the Town Planning Committee all agree that these phenomena could bring increased money and value to your town. Therefore, plans are under way to build a giant zoological theme park called the New Year Terrestrial Zoo, where these new creatures may be featured. In this course, you will learn about the habitats, behaviors, characteristics, and adaptations of the five classifications of animals: amphibians, fish, reptiles, mammals, and birds and have the opportunity to morph two animals together to create a new animal.

Making Music Through Computer Coding
*Anneka Harralson*
Have you ever wanted to make your own music video? In this hands-on course, here is your chance to use computer coding to play musical notes and create a music video. You will have the opportunity to learn how programming is used to create music.
UYP Session 2 (June 10–14): Grades 4–5  
Baylor University

**Morning Session (9:45–11:15 a.m.)**

**Liquid Gold: An Introduction to Water Quality**  
*Kristen Carlisle*

Water is liquid gold! In this course, you will learn about water quality, water distribution, sources of pollution, and water purification techniques. Test your water purification skills by designing and building your own water filter.

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**Intro to Programming Games**  
*Amber Sandifer*

Use Scratch, one of the most well-known starter programming languages, to build a foundation for your programming future. In this course, you will learn how to create your own lines of code and how to think like a master programmer. You will use this new way of thinking to create your very own program animations, stories, and games on the computer.

**Building Toothpick Bridges**  
*Jeff Platt*

In this interactive inquiry-based course, you will identify the main types of bridges and understand the strengths and weakness of each. By researching famous bridges, you will learn how each type of bridge is constructed to support weight and understand how geometry affects bridge design and function. You will have the opportunity to design and construct your own bridge and calculate the cost of the bridge you have constructed.
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Using Rubik’s Cubes: Conquer the Cube, Capture the Mind!
Jennifer Wyble
No experience necessary, experts welcome! Do you know how to solve the Rubik’s cube? If not, come learn to unlock the Secret Algorithms to solve it. Do you already know how to solve the Rubik’s cube? Challenge yourself to learn new ways to solve it even faster, create your own algorithms, or challenge yourself and others to some friendly competitions. Come discover that you can learn to solve the Rubik’s cube—and you can also do anything you set your mind to do!

Afternoon Session (1:15–2:45 p.m.)

Calculating Without a Calculator: A “How To” in Mental Math
Rachel Sangster
Have you ever had to take a test without a calculator or wished that you could multiply without a multiplication table? Have you ever seen Roman Numerals and wondered what they mean? If you’ve ever ran out of scratch paper when dividing fractions or discovering a square root, then this is the class for you. Learn how to do your own calculating without your phone, your fingers, or a pencil. In this class, we will talk about tips and tricks to help you become your own calculator!

Liquid Gold: An Introduction to Water Quality
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50 Things That Might Kill You
Jeff Platt
With all of the news lately about disease outbreaks and epidemics, it is important for us to increase our understanding of human diseases and their pathogenicity. By utilizing the worldwide web and completing this quest, you will gain insight into the nature of diseases and disease research. All infectious diseases can be categorized by the type of pathogen that causes them. In this course, you will research a disease and the pathogen that causes it. You will consider elements of depth and complexity, such as patterns, trends, and ethics, while conducting research. Your will share your research on the last day by preparing a creative product such as a Google Slides presentation, a rap, or a documentary.

Making Music Through Computer Coding
Anneka Harralson
Have you ever wanted to make your own music video? In this hands-on course, here is your chance to use computer coding to play musical notes and create a music video. You will have the opportunity to learn how programming is used to create music.

Nutrition and Health With Cooking
Courtney Anderson
You will enjoy a hands-on and exciting approach to nutrition and health! Learn how food can affect your body while experimenting with basic cooking techniques and healthy recipes. This course will teach you the importance of nutrition and how food can impact your lifelong health—all while enjoying your very own tasty and healthy meal creations.

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Exploring Your World Through Photography
Robert Rogers
Using cameras of all types, you will explore how to capture the world around you. This course will cover the basics of photography and visual storytelling. Comfortable shoes and eager learners are required! Together we will look at interesting images and try to create some of our own. Every day will involve another photography challenge, and you will have the opportunity to share your work with the class. Please note: Smartphones are suggested but not required, as UYP has cameras available for student use.

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view authentic Amate Bark Paintings from Mexico,
learn about their history, and feel fabric Molas from
Guatemala with their keen and colorful designs.
You’ll see brightly colored and intricately designed
art forms including pottery, weavings, and more
from various places in Central America. Then, you
will create your own motif for an original piece (or
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Paddle Sports and Ecology of the Brazos River
Lucinda Yang
The beautiful Brazos River is a home to a rich
ecosystem of water fowl, amphibians, reptiles, fish,
and plants. In this course, you will enhance your
knowledge of the local ecology, while also getting a
hands-on opportunity to explore the river on stand-
up paddle boards, canoes, and kayaks. This class
combines environmental science with real
adventure in a safe and fun atmosphere!

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The Great Escape
Teri Lloyd
Have you heard about the Escape Room craze that is sweeping the nation? In this course, in addition to breaking out, you will also break in. Number locks, word locks, directional locks, and digital locks will stand between you and success. There will also be online digital breakout games adding to the challenge. If you have taken this class previously, rest assured, new challenges await.

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Wonders of the Universe
Lathan Lucas
The universe is astounding and full of many mysteries. In this course, you will begin scratching the surface of the universe and learn ways in which the universe operates. By conducting your own experiments and having discussions over modern-day theories, you are sure to find yourself in amazement over the wonders that the universe we live in has to offer. You will learn about topics from the smallest parts of the world, such as atoms, all the way to the largest parts of the cosmos, such as black holes. Prepare yourself for an expedition of a lifetime.

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Kathe Barbur
Do you like to doodle or draw designs all over your homework? Do you find yourself sketching whatever you see, whenever you get the chance? Would you like to sharpen your skills while practicing your art? If so, then this is the class for you! Come explore the basics of line and shading, light and shadow, positive and negative space, while trying your hand at a variety of drawing media including graphite, prisma colors, charcoal, conte, and pastels. We’ll look at drawings from around the world and by famous artists throughout history. You will have the chance to see some Baylor students’ and professors’ drawings during a field trip to the Martin Museum of Art. From gesture drawing, to scribbling, to hatching and cross hatching, you will improve your artistry over the week and have some wonderful work to show!

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Why We Get Sick
Lathan Lucas
Getting sick is no fun. Have you ever wondered what the difference is between the flu and a common cold? If you get sick, how does your body get better? In this course, you learn how to answer these questions and more by diving into the question: What makes us sick? You will have the opportunity to learn all about everyday germs and even try your hand at creating a fictitious germ yourself. In addition to learning all about the micropests that make us sick, you will explore ways to protect yourself from getting sick in the first place.
Morning Session (9:45–11:15 a.m.)

Skills for Success
*Rachael Reddy*
This course will lay the foundation for valuable life skills that are not typically taught in a classroom setting. You will learn proper manners and etiquette, organization, and information about health and fitness. Each day, you will discuss a specific skill with fun and engaging open-ended questions, interactive conversations, and hands-on activities. After this course, you will have the tools to apply the knowledge you have learned to your everyday life!

iCollage
*Kathe Barbur*
Collage comes from the French word coller meaning “to glue” and is a technique of art production where the artwork is made from an assemblage of different forms, thus creating a new whole. After learning the history of collage as an art form and viewing the work of the artists who coined the term, you will be inspired to begin your own collage creation. Come with scraps of paper, fabric, paintings, prints, pictures, and more. Almost anything can be assembled with your ideas in iCollage!

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Resilience and Relationship in the Outdoors
*Gabriel Garcez*
Have you ever wondered how outdoor enthusiasts do what they do? Resilience and relationship in the outdoors will teach you how to start or hone lifelong outdoor skills. Whether on a bike, boat, rolling log, or slackline, this course will focus on three key themes: preparation, willingness, and perseverance through failure. Through these outdoor activities, you will experience how these three themes not only affect you, but the people around you. Life is an adventure, let’s learn to navigate it together!

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Exploring the World With Words: Poetry Writing
Holly Spofford
Have you ever looked at a poem and wondered if you could write something like that? Or even why it’s called a poem at all? In this course, we will learn to listen to and see the world in a new way and how to express that in words, as we do guided writing exercises, read poems, and write our own poems together. We will discuss different poetic forms like free verse, shaped poems, and haiku, and we will learn how to listen for meter and rhyme. Throughout the week, you will keep poetry notebooks that you will fill with your own writing and with your favorite poems, so you will come out of the class with a notebook full of words, providing inspiration and a place to continue writing.

Communication Through Improvisation
Gabriel Garcez
Do you want to learn to think on your toes, while working alongside others who are doing the same? Build confidence, learn to let your ideas flow, and interact with others in a multitude of ways. Group improvisation centers itself around one central idea: Everyone has something to contribute. Learn how to express your ideas in creative ways and increase your communication skills so you have these tools wherever you go!
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Come learn about the art of Mesoamerica, as you view authentic Amate Bark Paintings from Mexico, learn about their history, and feel fabric Molas from Guatemala with their keen and colorful designs. You’ll see brightly colored and intricately designed art forms including pottery, weavings, and more from various places in Central America. Then, you will create your own motif for an original piece (or pieces) of Mesoamerican multicultural-inspired art!

**Freedom and Equality Under the Law Through Speech, Satire, and Letters**  
*Peter Lund*

We believe that we live in a free country. Freedom can be understood as living under self-made law. Another freedom encroaches on the tenuous possibility of living under self-made law: To some, freedom means doing what one wishes, but this type of freedom can cause conflict. In this course, you will discuss the ideas of various authors who have grappled with the problems that are inherent in free republics. In reading speeches, satire, and letters—sometimes funny, other times serious—you will learn about the difficulty of freedom. Thinking about these things will allow you to have a deeper understanding of what it means to live in a free country.

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**Personality Assessments: Accurate or Not?**  
*Rachel Sangster*  
Have you ever taken the Enneagram or the Myers-Briggs? Do you like to take Facebook quizzes like “Which Disney Villain Are You?” If you’ve ever wondered how true these popular personality tests are, then this is the class for you! Together we will be diving into some of the latest psychology research on personalities to understand whether these popular tests are accurate or not. You’ll learn about yourself as we go through research-based personality tests and compare them to your Enneagram and Myers-Briggs results. In addition, you’ll learn about conducting research and how to differentiate between what’s real and what’s not on your social media news feeds.
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Exploring the Social World
Amanda Hernandez
What makes up our social world and how do scientists study it? Sociology is the study of society. It asks how people make society and also how society shapes people. In this course, you will learn about the fundamental concepts of sociology and take part in hands-on activities to learn about society. We will use sociological methods including interviews, observation, and other kinds of data collection to learn more about ourselves and our society together!

Game Design Through Coding
Anneka Harralson
Do you love playing video games? Have you ever wondered how they were made? You can have the chance to create your very own. In this course, you will learn video game coding concepts and ultimately create your own games while using computer science.

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The Great Escape
Teri Lloyd
Have you heard about the Escape Room craze that is sweeping the nation? In this course, in addition to breaking out, you will also break in. Number locks, word locks, directional locks, and digital locks will stand between you and success. There will also be online digital breakout games adding to the challenge. If you have taken this class previously, rest assured, new challenges await.

Exploring the Social World
Amanda Hernandez
What makes up our social world and how do scientists study it? Sociology is the study of society. It asks how people make society and also how society shapes people. In this course, you will learn about the fundamental concepts of sociology and take part in hands-on activities to learn about society. We will use sociological methods including interviews, observation, and other kinds of data collection to learn more about ourselves and our society together!

Physics of Superheroes
Lathan Lucas
Have you ever wondered how Superman can lift a car like it weighs nothing? Do you ever question how Spiderman can use his thin web to stop huge train cars from colliding into each other? Maybe you just want to know how Star-Lord can fly a spaceship. In this course, you will apply general physics to your favorite superheroes’ abilities. We will figure out exactly how strong these superheroes actually are and what kind of things they need to know in order to save the world without breaking science.

Lunch and Recreation (11:15 a.m.–1:15 p.m.)

Experience the life of a college student as you join other campers and your mentor for lunch in Penland Dining Hall. All-you-can-eat food options include, but are not limited to, hamburgers, sandwiches, pizza, salad, fruit, Mexican food, stir fry, gluten-free options, and dessert. After lunch, you will enjoy recreation such as soccer, volleyball, games, and movies that are organized by UYP mentors. Mentors will take you to your afternoon course after recreation time.
Afternoon Session (1:15–2:45 p.m.)

Freedom and Equality Under the Law Through Speech, Satire, and Letters
Peter Lund
We believe that we live in a free country. Freedom can be understood as living under self-made law. Another freedom encroaches on the tenuous possibility of living under self-made law: To some, freedom means doing what one wishes, but this type of freedom can cause conflict. In this course, you will discuss the ideas of various authors who have grappled with the problems that are inherent in free republics. In reading speeches, satire, and letters—sometimes funny, other times serious—you will learn about the difficulty of freedom. Thinking about these things will allow you to have a deeper understanding of what it means to live in a free country.

iCollage
Kathe Barbur
Collage comes from the French word coller meaning “to glue” and is a technique of art production where the artwork is made from an assemblage of different forms, thus creating a new whole. After learning the history of collage as an art form and viewing the work of the artists who coined the term, you will be inspired to begin your own collage creation. Come with scraps of paper, fabric, paintings, prints, pictures, and more. Almost anything can be assembled with your ideas in iCollage!

Mind Blown!
Lathan Lucas
The last sentence in this description is true. A paradox is a statement or argument that seems to be absolutely absurd or even self-contradictory, but when actually investigated, turns out to be true. This course challenges you to think entirely in paradoxes as you use mathematics and logic to solve problems that seem unsolvable. For example, take a look at Hilbert’s paradox:

\[
0 = 0 + 0 + 0 + \ldots
\]

\[
0 = (1-1) + (1-1) + (1-1) + \ldots
\]

\[
0 = 1-1 + 1-1 + 1-1 + \ldots
\]

\[
0 = 1 + (-1) + 1 + (-1) + 1 + (-1) + \ldots
\]

\[
0 = 1 + (-1+1) + (-1+1) + (-1+1) + \ldots
\]

\[
0 = 1 + 0 + 0 + 0 + \ldots
\]

\[
0 = 1
\]

How can this be true? Be ready to have your mind blown! This sentence in this description is actually false.